Amendments to the Abstract:

Please replace the previous Abstract with the following redlined Abstract:

A photo transistor has an active region (24)-spaced from a source (28)-by barrier (26). A drain (20)-is laterally spaced from the active region-(24). Light incident on the active region creates electron-hole pairs. Holes accumulate at the barrier and modulate the effective barrier height to electrons. A gate reset voltage then is applied to gate (4)-which lower the barrier allowing the holes to escape.

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